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☐	L19	(data and synchroniz$5 and combin$3 and value$1 and generat$3 and function$1 and (first near5 identifier$1) and (first near5 source)).clm.	1
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☐	L16	(data and (portion$1 or part$1) and (match$3 or compar$3) and synchroniz$5 and source$1 and target$1 and unique and identifier$1 and function$1).clm.	0
☐	L15	(data and (portion$1 or part$1) and (match$3 or compar$3) and synchroniz$5 and source$1 and target$1 and unique and identifier$1).clm.	1
☐	L14	(data and (portion$1 or part$1) and (match$3 or compar$3) and synchroniz$5 and source$1 and target$1).clm.	46
☐	L13	(data and (portion$1 or part$1) and (match$3 or compar$3) and synchroniz$5).clm.	1103
☐	L12	(data and synchroniz$5 and source$1 and target$1 and generat$3 and unique and function$1 and identifier$1 and first and second and (compar$3 or match$3)).clm.	0
☐	L11	(data and synchroniz$5 and source$1 and target$1 and generat$3 and unique and function$1 and identifier$1 and first and second).clm.	1
☐	L10	(data and synchroniz$5 and source$1 and target$1 and generat$3 and unique and function$1 and identifier$1 and first and second and portion$1 and compar$3).clm.	0
☐	L9	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1 and perform$3 and function$1 and compar$3 and stor$3 and match$3).clm.	2
☐	L8	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1 and perform$3 and function$1 and compar$3 and stor$3).clm.	5
☐	L7	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1 and perform$3 and function$1).clm.	25
☐	L6	(data and synchroniz$5 and first and value and second and identifier$1 and portion$1 and compar$3 and match$3 and unique and stor$3).clm.	3
☐	L5	(data and synchroniz$5 and first and value and second and identifier$1 and portion$1).clm.	75
		(data and synchroniz$5 and source$1 and (part$1 or portion$1) and	

☐	L4	identifier$1 and target$1 and generat$3 and value$1).clm.	1
☐	L3	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1 and target$1 and generat$3).clm.	4
☐	L2	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1 and target$1).clm.	5
☐	L1	(data and synchroniz$5 and source$1 and (part$1 or portion$1) and identifier$1).clm.	94

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1. **Indexing management for distributed linear hash files**
Shang-Sheng Tung; Hongyuan Zha; Keefe, T.;
Database and Expert Systems Applications, 1996. Proceedings., Seventh Inte
Workshop on
9-10 Sept. 1996 Page(s):106 - 114
Digital Object Identifier 10.1109/DEXA.1996.558283
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1. **Database of best T-codes**
Higgie, G.R.;
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13-15 Aug. 1997 Page(s):100 - 103
Digital Object Identifier 10.1109/CMPSAC.1997.624770
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Xin Zhang; Mitchell, G.; Wang-Chien Lee; Rundensteiner, E.A.;
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Volume 39, Issue 1, Feb. 1993 Page(s):57 - 62
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☐ **7. Design and analysis of communication network for distributed SCADA sy electric railways]**
Qian Wang; Qingquan Qian;
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#3	(((datasets<in>metadata) <and> (synchronizing<in>metadata))<and> (function<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#4	(((data<in>metadata) <and> (synchronizing<in>metadata)) <and> (function<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#5	(((data<in>metadata) <and> (synchronizing<in>metadata)) <and> (hash<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#6	(((databases<in>metadata) <and> (synchronizing<in>metadata))<and> (hash<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#7	(((databases<in>metadata) <and> (synchronizing<in>metadata))<and> (unique<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#8	(((databases<in>metadata) <and> (synchronizing<in>metadata))) <and> (pyr >= 1950 <and> pyr <= 2002)
#9	(((databases<in>metadata) <and> (synchronizing<in>metadata))) <and> (pyr >= 1950 <and> pyr <= 2002)
#10	(((databases<in>metadata) <and> (synchronizing<in>metadata))<and> (matching<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#11	(((databases<in>metadata) <and> (synchronizing<in>metadata))<and> (matching<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)

#12	(((databases<in>metadata) <and> (synchronizing<in>metadata))<and> (generating<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#13	(((synchronizing<in>metadata) <and> (unique<in>metadata))<and> (identifiers<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#14	(((synchronizing<in>metadata) <and> (unique<in>metadata))<and> (data<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#15	(((synchronizing<in>metadata) <and> (unique<in>metadata))) <and> (pyr >= 1950 <and> pyr <= 2002)
#16	(((synchronizing<in>metadata) <and> (datasets<in>metadata))) <and> (pyr >= 1950 <and> pyr <= 2002)
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#18	(((synchronizing<in>metadata) <and> (source<in>metadata))<and> (data<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)
#19	(((synchronizing<in>metadata) <and> (source<in>metadata))<and> (data<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2002)

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Terms used **2002 data synchronization two sources** Found **128,567** of **184,245**

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1 Multiversion-based view maintenance over distributed data sources
Songting Chen, Bin Liu, Elke A. Rundensteiner
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(480.72 KB) Additional Information: full citation, abstract, references, index terms

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve such conflicts and assume all source schemata remain stable over time. In a loosely coupled dynamic environment, the sources may autonomously change not only their data but also their schema or semantics. Consequently, either the maintenance or the ...

Keywords: View maintenance, transaction processing

2 A study of source-level compiler algorithms for automatic construction of pre-execution code
Dongkeun Kim, Donald Yeung
August 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, index terms

Pre-execution is a promising latency tolerance technique that uses one or more helper threads running in spare hardware contexts ahead of the main computation to trigger long-latency memory operations early, hence absorbing their latency on behalf of the main computation. This article investigates several source-to-source C compilers for extracting pre-execution thread code automatically, thus relieving the programmer or hardware from this onerous task. We present an aggressive profile-driven co ...

Keywords: Data prefetching, memory-level parallelism, multithreading, pre-execution, prefetch conversion, program slicing, speculative loop parallelization

3 Systems, platforms, and applications: Experimental evaluation of synchronization and topology control for in-building sensor network applications
W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy
September 2003 **Proceedings of the 2nd ACM international conference on Wireless**

sensor networks and applications

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several applications deployed throughout our building that monitor conference room occupancy and environmental statistics and provide access to room reservation status. Because it is often infeasible to locate sensors and display devices near power out ...

Keywords: synchronization, topology control, wireless sensor networks

4 Research sessions: distributed systems: Best-effort cache synchronization with source cooperation

Chris Olston, Jennifer Widom

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

In environments where exact synchronization between source data objects and cached copies is not achievable due to bandwidth or other resource constraints, *stale* (out-of-date) copies are permitted. It is desirable to minimize the overall *divergence* between source objects and cached copies by selectively refreshing modified objects. We call the online process of selecting which objects to refresh in order to minimize divergence *best-effort synchronization.* In most approaches ...

5 Adaptive pull-based policies for wide area data delivery

Laura Bright, Avigdor Gal, Louiqa Raschid

June 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(680.22 KB) Additional Information: full citation, abstract, references, index terms

Wide area data delivery requires timely propagation of up-to-date information to thousands of clients over a wide area network. Applications include web caching, RSS source monitoring, and email access via a mobile network. Data sources vary widely in their update patterns and may experience different update rates at different times or unexpected changes to update patterns. Traditional data delivery solutions are either push-based, which requires servers to push updates to clients, or pull-based ...

Keywords: Pull-based, caching, data delivery, update models

6 XML transactions: Efficient synchronization for mobile XML data

Franky Lam, Nicole Lam, Raymond Wong

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(116.31 KB) Additional Information: full citation, abstract, references, index terms

Many handheld applications receive data from a primary database server and operate in an intermittently connected environment these days. They maintain data consistency with data sources through sychronization. In certain applications such as sales force automation, it is highly desirable if updates on the data source can be reflected at the

handheld applications immediately. This paper proposes an efficient method to synchronize XML data on multiple mobile devices. Each device retrieves and cac ...

Keywords: XML, information dissemination, information subscription, path containment

7 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(18.15 MB) Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

8 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &l ...

9 Integrating XML data sources using approximate joins

Sudipto Guha, H. V. Jagadish, Nick Koudas, Divesh Srivastava, Ting Yu

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, index terms

XML is widely recognized as the data interchange standard of tomorrow because of its ability to represent data from a variety of sources. Hence, XML is likely to be the format through which data from multiple sources is integrated. In this article, we study the problem of integrating XML data sources through correlations realized as join operations. A challenging aspect of this operation is the XML document structure. Two documents might convey approximately or exactly the same information but m ...

Keywords: Data integration, XML, approximate joins, joins, tree edit distance

10 Physical interface: Fine-grained network time synchronization using reference broadcasts

Jeremy Elson, Lewis Girod, Deborah Estrin

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, citings

Recent advances in miniaturization and low-cost, low-power design have led to active research in large-scale networks of small, wireless, low-power sensors and actuators. Time synchronization is critical in sensor networks for diverse purposes including sensor data fusion, coordinated actuation, and power-efficient duty cycling. Though the clock accuracy and precision requirements are often stricter than in traditional distributed systems, strict energy constraints limit the resources available ...

11 ReEnact: using thread-level speculation mechanisms to debug data races in multithreaded codes

Milos Prvulovic, Josep Torrellas

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(184.86 KB) Additional Information: full citation, abstract, references, citings

While removing software bugs consumes vast amounts of human time, hardware support for debugging in modern computers remains rudimentary. Fortunately, we show that mechanisms for Thread-Level Speculation (TLS) can be reused to boost debugging productivity. Most notably, TLS's rollback capabilities can be extended to support rolling back recent buggy execution and repeating it as many times as necessary until the bug is fully characterized. These incremental re-executions are deterministic even i ...

12 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

13 A survey of research and practices of Network-on-chip

Tobias Bjerregaard, Shankar Mahadevan

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

The scaling of microchip technologies has enabled large scale systems-on-chip (SoC). Network-on-chip (NoC) research addresses global communication in SoC, involving (i) a move from computation-centric to communication-centric design and (ii) the implementation of scalable communication structures. This survey presents a perspective on existing NoC research. We define the following abstractions: system, network adapter, network, and link to explain and structure the fundamental concepts. First, r ...

Keywords: Chip-area networks, GALS, GSI design, NoC, OCP, SoC, ULSI design, communication abstractions, communication-centric design, interconnects, network-on-chip, on-chip communication, sockets, system-on-chip

14 Astrolabe: A robust and scalable technology for distributed system monitoring,

management, and data mining
Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2
Publisher: ACM Press
Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

15 A taxonomy of Data Grids for distributed data sharing, management, and processing
Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: pdf(1.70 MB) Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

16 Special session: Design and programming of embedded multiprocessors: an interface-centric approach
Pieter van der Wolf, Erwin de Kock, Tomas Henriksson, Wido Kruijtzer, Gerben Essink
September 2004 **Proceedings of the 2nd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis**
Publisher: ACM Press
Full text available: pdf(377.96 KB) Additional Information: full citation, abstract, references, index terms

We present design technology for the structured design and programming of embedded multi-processor systems. It comprises a task-level interface that can be used both for developing parallel application models and as a platform interface for implementing applications on multi-processor architectures. Associated mapping technology supports refinement of application models towards implementation. By linking application development and implementation aspects, the technology integrates the specificat ...

Keywords: code transformation, media processing, multiprocessor mapping, platform interface, system design method, task-level interface

17 Data warehousing and OLAP: Batch data warehouse maintenance in dynamic environments

Bin Liu, Songting Chen, Elke A. Rundensteiner
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(187.87 KB) Additional Information: full citation, abstract, references, citings, index terms

Data warehouse view maintenance is an important issue due to the growing use of warehouse technology for information integration and data analysis. Given the dynamic nature of modern distributed environments, both data updates and schema changes are likely to occur in different data sources. In applications that the real-time refreshment of data warehouse extent under source changes is not critical, the source updates are usually maintained in a batch fashion to reduce the maintenance overhead. ...

Keywords: batch maintenance, data update, data warehouse maintenance, schema change

18 Special section on sensor network technology and sensor data managment: The Cougar Project: a work-in-progress report
Alan Demers, Johannes Gehrke, Rajmohan Rajaraman, Niki Trigoni, Yong Yao
December 2003 **ACM SIGMOD Record**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(255.68 KB) Additional Information: full citation, abstract, references

We present an update on the status of the Cougar Sensor Database Project, in which we are investigating a database approach to sensor networks: Clients "program" the sensors through *queries* in a high-level *declarative* language (such as a variant of SQL). In this paper, we give an overview of our activities on energy-efficient data dissemination and query processing. Due to space constraints, we cannot present a full menu of results; instead, we decided to only whet the reader's app ...

19 Projectors: advanced graphics and vision techniques
Ramesh Raskar
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(6.53 MB) Additional Information: full citation

20 Platforms: DFuse: a framework for distributed data fusion
Rajnish Kumar, Matthew Wolenetz, Bikash Agarwalla, JunSuk Shin, Phillip Hutto, Arnab Paul, Umakishore Ramachandran
November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems**
Publisher: ACM Press
Full text available: pdf(541.24 KB) Additional Information: full citation, abstract, references, index terms

Simple in-network data aggregation (or fusion) techniques for sensor networks have been the focus of several recent research efforts, but they are insufficient to support advanced fusion applications. We extend these techniques to future sensor networks and ask two related questions: (a) what is the appropriate set of data fusion techniques, and (b) how do we dynamically assign aggregation roles to the nodes of a sensor network. We have developed an architectural framework, *DFuse*, for ans ...

Keywords: data fusion, energy awareness, in-network aggregation, middleware,

platform, role assignment, sensor network

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1 On data synchronization for multiprocessors
H.-M. Su, P.-C. Yew
April 1989 **ACM SIGARCH Computer Architecture News , Proceedings of the 16th annual international symposium on Computer architecture ISCA '89**, Volume 17 Issue 3
Publisher: ACM Press
Full text available: pdf(966.79 KB) Additional Information: full citation, abstract, references, citings, index terms

As the grain size becomes smaller, more parallelism can be found in most programs. However, to exploit smaller grain parallelism, more efficient synchronization primitives are needed to reduce the increased synchronization overhead. The granularity of parallelism that can be exploited on a multiprocessor system depends heavily on the type and the efficiency of the synchronization supported by the system. For medium-grain parallelism, ordered dependencies such as data dependencies and contro ...

2 Static analysis to reduce synchronization costs in data-parallel programs
Manish Gupta, Edith Schonberg
January 1996 **Proceedings of the 23rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '96**
Publisher: ACM Press
Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

3 Memory optimization methodologies: A scalable and flexible data synchronization scheme for embedded HW-SW shared-memory systems
Om Prakash Gangwal, André Nieuwland, Paul Lippens
September 2001 **Proceedings of the 14th international symposium on Systems synthesis**
Publisher: ACM Press
Full text available: pdf(154.99 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the implementation of a data-synchronization scheme that can be used in the functional description and hardware realization of algorithms for heterogeneous multi-processor architectures. In this scheme, synchronization primitives are chosen such that they can be implemented efficiently in both hardware and software on distributed shared memory architectures, without the need for atomic semaphore

instructions. The proposed solution is flexible as the configuration of the data ...

4 Synchronization in multimedia data retrieval

Anna Haj Hać, Cindy X. Xue

January 1997 **International Journal of Network Management**, Volume 7 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(487.64 KB) Additional Information: full citation, abstract, references, index terms

Synchronization of multiple medium streams in real time has been recognized as one of the most important requirements for multimedia applications based on broadband high-speed networks. This article presents a complete synchronization scheme for distributed multimedia information systems. © 1997 John Wiley & Sons, Ltd.

5 Compiler techniques for data synchronization in nested parallel loops

Peiyi Tang, Pen-Chung Yew, Chuan-Qi Zhu

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing ICS '90**, Volume 18 Issue 3b

Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index terms

The major source of parallelism in ordinary programs is do loops. When loop iterations of parallelized loops are executed on multiprocessors, the cross-iteration data dependencies need to be enforced by synchronization between processors. Existing data synchronization schemes are either too simple to handle general nested loop structures with non-trivia array subscript functions or inefficient due to the large run-time overhead. In this paper, we propose a new synchronization sch ...

6 Efficiently synchronizing multidimensional schema data

L. Schlesinger, A. Bauer, W. Lehner, G. Ediberidze, M. Gutzmann

November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**

Publisher: ACM Press

Full text available: pdf(2.40 MB) Additional Information: full citation, abstract, references, index terms

Most existing concepts in data warehousing provide a central data¿base system storing gathered raw data and redundantly computed materialized views. While in current system architectures client tools are sending queries to a central data warehouse system and are only used to graphically present the result, the steady rise in power of personal computers and the expansion of network bandwidth makes it possible to store replicated parts of the data warehouse at the client thus saving network bandwi ...

7 Dynamic speculation and synchronization of data dependences

Andreas Moshovos, Scott E. Breach, T. N. Vijaykumar, Gurindar S. Sohi

May 1997 **ACM SIGARCH Computer Architecture News , Proceedings of the 24th annual international symposium on Computer architecture ISCA '97**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(2.51 MB) Additional Information: full citation, abstract, references, citings, index terms

Data dependence speculation is used in instruction-level parallel (ILP) processors to allow early execution of an instruction before a logically preceding instruction on which it may be data dependent. If the instruction is independent, data dependence speculation succeeds; if not, it fails, and the two instructions must be synchronized. The modern dynamically scheduled processors that use data dependence speculation do so blindly (i.e., every load instruction with unresolved dependences is spec ...

8 Decoupling synchronization and data transfer in message passing systems of parallel computers

T. Stricker, J. Stichnoth, D. O'Hallaron, S. Hinrichs, T. Gross
July 1995 **Proceedings of the 9th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

9 Synchronization of distributed multimedia data in an application-specific manner

N. Agarwal, S. Son
October 1994 **Proceedings of the second ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(766.81 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the distinctive features of multimedia systems is the wide range of applications they intend to cover, stretching the gamut from entertainment to life-critical applications such as real-time remote surgery. In the face of such a wide spectrum of applications, protocols used to deal with various issues in multimedia systems should be adaptable to the application. Synchronization is one of the key characteristics of a multimedia system. In this paper, we propose a mechanism for synchro ...

10 Comparing data synchronization in Ada 9X and Orca

Henri E. Bal
January 1995 **ACM SIGAda Ada Letters**, Volume XV Issue 1
Publisher: ACM Press
Full text available: pdf(733.55 KB) Additional Information: full citation, abstract, citings, index terms

Protected object types are one of three major extensions to Ada 83 proposed by Ada 9X. This language feature is intended for light-weight data synchronization between tasks. The Orca parallel programming language has a very similar construct, the shared data-object, with which we have over five years of experience, both in usage and implementation. This paper compares protected objects and shared data-objects, with regard to design, usage, and implementation.

11 Associating synchronization constraints with data in an object-oriented language

Mandana Vaziri, Frank Tip, Julian Dolby
January 2006 **ACM SIGPLAN Notices , Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '06**, Volume 41 Issue 1
Publisher: ACM Press
Full text available: pdf(254.75 KB) Additional Information: full citation, abstract, references, index terms

Concurrency-related bugs may happen when multiple threads access shared data and interleave in ways that do not correspond to any sequential execution. Their absence is not guaranteed by the traditional notion of "data race" freedom. We present a new definition of data races in terms of 11 problematic interleaving scenarios, and prove that it is *complete* by showing that any execution not exhibiting these scenarios is serializable for a chosen set of locations. Our definition subsumes the ...

Keywords: concurrent object-oriented programming, data races, programming model, serializability

12 Resource &equil; abstract data type + synchronization - A methodology for message oriented programming -

P. R.F. Cunha, T. S.E. Maibaum

March 1981 **Proceedings of the 5th international conference on Software engineering**

Publisher: IEEE Press

Full text available: pdf(815.53 KB) Additional Information: full citation, abstract, references, index terms

We present in this paper a methodology for the development (and analysis) of programs designed specifically for distributed environments where synchronization is achieved through message passing. The methodology is based on techniques and concepts which have been found to be useful for the development of sequential programs—namely, stepwise refinement and abstract data types. The methodology is based on the concept of resource, generalizing the concepts of monitors, managers, propriet ...

13 Distributed shared memory systems with improved barrier synchronization and data transfer

Nian-Feng Tzeng, Angkul Kongmunvattana

July 1997 **Proceedings of the 11th international conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(1.50 MB) Additional Information: full citation, references, citings, index terms

14 XML transactions: Efficient synchronization for mobile XML data

Franky Lam, Nicole Lam, Raymond Wong

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(116.31 KB) Additional Information: full citation, abstract, references, index terms

Many handheld applications receive data from a primary database server and operate in an intermittently connected environment these days. They maintain data consistency with data sources through sychronization. In certain applications such as sales force automation, it is highly desirable if updates on the data source can be reflected at the handheld applications immediately. This paper proposes an efficient method to synchronize XML data on multiple mobile devices. Each device retrieves and cac ...

Keywords: XML, information dissemination, information subscription, path containment

15 Late-breaking/interactive posters: Synchronized retrieval of recorded multimedia data

Yukihiro Kawamata, Kimiya Yamaashi, Masayasu Futakawa

March 1997 **CHI '97 extended abstracts on Human factors in computing systems: looking to the future CHI '97**

Publisher: ACM Press

Full text available: pdf(235.44 KB) Additional Information: full citation, abstract, references

This paper describes techniques for the retrieval of recorded multimedia data for supervisory control systems. Currently these systems operators can only retrieve recorded data individually. We developed new techniques to access all recorded data is synchronization. The techniques enable users to retrieve multimedia data such as sensor data and videos simultaneously, and also enable users to obtain the desired related data, including objects in videos, by "Drag and Drop" operation. All these tec ...

Keywords: data retrieval, drag and drop, multimedia, video

16 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

17 Modeling of two distributed schemes for data synchronization in a computer network

Chin-Hwa Lee, R. S. Shastri

March 1978 **Proceedings of the 11th annual symposium on Simulation**

Publisher: IEEE Press

Full text available: pdf(487.53 KB) Additional Information: full citation, abstract, references, index terms

In the network environment with distributed multiple-copied files a lockout mechanism is required to guarantee the data synchronization. File access requests from geographically distributed computer node have to be coordinated to maintain consistency of multiple-copied files. Network-wide semaphore scheme and hopping permit scheme are proposed in this paper to protect file access critical session among concurrent users on the networks. Simulation results using GPSS have shown slightly bette ...

18 Synchronization in a parallel-accessed data base

A. Shoshani, A. J. Bernstein

November 1969 **Communications of the ACM**, Volume 12 Issue 11

Publisher: ACM Press

Full text available: pdf(596.17 KB) Additional Information: full citation, abstract, references, citings, index terms

The following problem is considered: Given a data base which can be manipulated simultaneously by more than one process, what are the rules for synchronization which will maximize the amount of parallel activity allowed. It is assumed that the data base can be represented as a graph. An example of such a data base is a hierarchy of directories for an on-line file system. Methods for synchronization of processes are examined; their validity is discussed and their performance compared.

Keywords: data base, deadlock, file search, locking, parallel accessing, parallel search, synchronization

19 Synchronized data distribution management in distributed simulations

Ivan Tacic, R. M. Fujimoto

July 1998 **ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation PADS '98**, Volume 28 Issue 1

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(902.49 KB) Publisher Site Additional Information: full citation, references, citings, index terms

Keywords: data distribution management, high level architecture, interest management, run-time infrastructure, time management

20 Transaction synchronization in structures for point data

Eleanna Kafeza, Thanasis Hadzilacos

November 1997 **Proceedings of the 5th ACM international workshop on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(930.36 KB) Additional Information: full citation, references, index terms

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

RESULT LIST
Approximately **71** results found in the Worldwide database for:
databases in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 Incrementally sychronizing occasionally-connected mobile databases, preserving horizontal filter scope consistency by using client pre-image
Inventor: BISWAL DILIP K (US); CHENG ISAAC K (US); (+3) **Applicant:**
EC: **IPC:** ***G06F12/00***; **G06F12/00**
Publication info: **US2006101212** - 2006-05-11

2 SERVERLESS REPLICATION OF DATABASES
Inventor: GERMER ARMIN (DE); HACKER ANDRE (DE) **Applicant:** IMS INNOVATION MAN SERVICES GM (DE); GERMER ARMIN (DE); (+1)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **WO2006040139** - 2006-04-20

3 AUTOMATIC AND DYNAMIC PROVISIONING OF DATABASES
Inventor: LAKSHMINATH ANAND (US); CIMINSKI JOHN (US); (+4) **Applicant:** ORACLE INT CORP (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **CA2533793** - 2005-03-03

4 DATABASES SYNCHRONIZATION
Inventor: ABELLAN SEVILLA JORGE (FR); DUBOIS CHRISTOPHE (FR) **Applicant:** AXALTO SA (FR)
EC: **IPC:** (IPC1-7): H04Q7/32; G06F17/30
Publication info: **EP1637003** - 2006-03-22

5 Synchronization of databases with record sanitizing and intelligent comparison
Inventor: BOOTHBY DAVID J (US) **Applicant:** INTELLISYNC CORP (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US7013315** - 2006-03-14

6 Notification protocol for establishing synchronization mode for use in synchronizing databases
Inventor: RYBICKI STEPHEN G (US) **Applicant:** INTELLISYNC CORP (US)
EC: **IPC:** ***G06F17/30***; **G06F17/30**
Publication info: **US7007003** - 2006-02-28

7 Distributed bridging with synchronization forwarding databases
Inventor: WEYMAN RAPHAEL J (GB) **Applicant:** 3COM CORP (US)
EC: **IPC:** ***G06F15/16***; **G06F15/16**
Publication info: **US2006036765** - 2006-02-16

8 Method and apparatus for synchronizing databases in portable communication devices
Inventor: AHLGREN KRISTINA (SE); BIRKLER JOERGEN (SE); (+2) **Applicant:** ERICSSON TELEFON AB L M (SE)
EC: **IPC:** ***H04B15/00; H04M1/00; H04Q7/36*** (+5)
Publication info: **US6968209** - 2005-11-22

9 APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING SYNCHRONIZATION OF DATABASES CONNECTED BY WAY OF A RADIO AIR INTERFACE
Inventor: TYSOWSKI PIOTR K (CA); HECHT-ENNS ALBERT (CA); (+6) **Applicant:** RES IN MOTION LTD (CA)
EC: G06F17/30B; G06F17/30N **IPC:** ***G06F7/00; G06F13/00; G06F17/00*** (+11)

Publication info: **CA2496478** - 2005-08-10

10 **APPARATUS, AND ASSOCIATED METHOD, FOR SYNCHRONIZING DATABASES CONNECTED BY WAY OF A RADIO AIR INTERFACE**

Inventor: ZHU JIE (CA); YACH DAVID PAUL (CA); (+6) **Applicant:** RES IN MOTION LTD (CA)

EC: G06F17/30B **IPC:** ***G06F7/00; G06F13/00; G06F17/00*** (+11)

Publication info: **CA2496375** - 2005-08-10

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
Approximately **71** results found in the Worldwide database for:
databases in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

11 Databases synchronization
Inventor: SEVILLA JORGE A (FR) **Applicant:** AXALTO SA (FR)
EC: G06F17/30N **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+2)
Publication info: **US2005246395** - 2005-11-03

12 System and method for synchronizing data records between multiple databases
Inventor: HIND HUGH (CA); DUNK CRAIG (CA) **Applicant:** RES IN MOTION LTD (US)
EC: G06F11/14A4B5M; G06F17/30B **IPC:** ***G06F11/14; G06F17/30***; **G06F11/14** (+2)
Publication info: **US2005071358** - 2005-03-31

13 Smart and selective synchronization between databases in a document management system
Inventor: GOMES DAVID (US); FONG DUKE (US); (+1) **Applicant:** INTEGRATED DATA CORP
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30 (+1)
Publication info: **US2005216524** - 2005-09-29

14 DATABASES SYNCHRONIZATION
Inventor: ABELLAN SEVILLA JORGE (FR); DUBOIS CHRISTOPHE (FR) **Applicant:** AXALTO SA (FR); ABELLAN SEVILLA JORGE (FR); (+1)
EC: G06F17/30N; H04Q7/32A2 **IPC:** ***G06F17/30; H04Q7/32***; **G06F17/30** (+2)
Publication info: **WO2004114152** - 2004-12-29

15 Synchronization of plural databases in a database replication system
Inventor: HOLENSTEIN PAUL J (US); HOLENSTEIN BRUCE D (US); (+1) **Applicant:**
EC: G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US2004215670** - 2004-10-28

16 Apparatus, and associated method, for synchronizing databases connected by way of a radio air interface
Inventor: YACH DAVID P (CA); LINKERT BARRY W (CA); (+6) **Applicant:**
EC: **IPC:** ***G06F12/00; G06F15/173; G06F17/30*** (+8)
Publication info: **US2005177632** - 2005-08-11

17 Apparatus, and associated method, for facilitating synchronization of databases connected by way of a radio air interface
Inventor: YACH DAVID P (CA); LINKERT BARRY W (CA); (+6) **Applicant:**
EC: **IPC:** ***H04B7/005***; **H04B7/005**; (IPC1-7): H04B7/005
Publication info: **US2005176453** - 2005-08-11

18 Apparatus, and associated method, for synchronizing databases connected by way of a radio air interface
Inventor: LINKERT BARRY (CA); OMAR SALIM H (CA); (+3) **Applicant:**
EC: G06F17/30B; G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): H04Q7/20
Publication info: **US2004224672** - 2004-11-11

19 Method and apparatus for parallel execution of conduits during simultaneous synchronization of databases
Inventor: CREEMER DAVID (US); RAFF CHRIS (US) **Applicant:** PALMSOURCE INC (US)
EC: G06F17/30N **IPC:** ***G06F12/00; G06F17/30***; **G06F12/00** (+2)
Publication info: **US6963883** - 2005-11-08

20 Information system comprised of synchronized software application moduless with individual databases for implementing and changing business requirements to be automated

Inventor: RUIZ MARIO (EC); MEJIA VICTOR (EC); (+1) **Applicant:**

EC: G06Q10/00C **IPC:** ***G06Q10/00***; **G06Q10/00**; (IPC1-7): G06F17/60

Publication info: **US2005033588** - 2005-02-10

RESULT LIST
59 results found in the Worldwide database for:
databases in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

21 DATABASES SYNCHRONIZATION
Inventor: ABELLAN SEVILLA JORGE (FR) **Applicant:** AXALTO S A (FR)
EC: **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **EP1532547** - 2005-05-25

22 System and method for synchronizing data records between multiple databases
Inventor: HIND HUGH (CA); DUNK CRAIG A (CA) **Applicant:**
EC: G06F11/14A4B5M; G06F17/30B **IPC:** ***G06F11/14***; ***G06F17/30***; **G06F11/14** (+2)
Publication info: **US2004024795** - 2004-02-05

23 System and method for synchronizing data in multiple databases
Inventor: ZONDERVAN QUINTON YVES (US); LEE ALEXANDRE J (US) **Applicant:**
EC: G06F17/30B; G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US2003131025** - 2003-07-10

24 Synchronization of plural databases in a database replication system
Inventor: HOLENSTEIN PAUL J (US); HOLENSTEIN BRUCE D (US); (+1) **Applicant:** ITI INC (US)
EC: G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00 (+1)
Publication info: **US2003131027** - 2003-07-10

25 Efficient data transfer mechanism for synchronization of multi-media databases
Inventor: LAMBURT LEONID (US) **Applicant:** VERIZON LAB INC (US)
EC: G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F7/00
Publication info: **US6578056** - 2003-06-10

26 Method and apparatus for sharing many thought databases among many clients
Inventor: HUGH HARLAN M (US) **Applicant:**
EC: G06F17/30B; G06F17/30N **IPC:** ***G09G5/00***; **G09G5/00**; (IPC1-7): G09G5/00
Publication info: **US2003117434** - 2003-06-26

27 System and method for managing the synchronization of replicated version-managed databases
Inventor: COOKE IAIN C (GB); THOMSON GARY S M (GB); (+1) **Applicant:** TADPOLE TECHNOLOGY PLC (US)
EC: G06F17/30B **IPC:** ***G06F7/00***; ***G06F17/30***; **G06F7/00** (+2)
Publication info: **US2003093431** - 2003-05-15

28 Apparatus and method for synchronizing databases in distributed communication systems
Inventor: NEUHAUS RALF (DE); UECKER RAINER (DE) **Applicant:**
EC: G06F17/30C; H04L12/24E; (+1) **IPC:** ***G06F17/30***; ***H04L12/24***; ***H04L12/46*** (+4)
Publication info: **US2002065829** - 2002-05-30

29 NON-TIME DEPENDENT SYNCHRONIZATION OF DATABASES
Inventor: BIRKLER JOERGEN (SE); NOVAK LARS (SE) **Applicant:** ERICSSON TELEFON AB L M (SE); BIRKLER JOERGEN (SE); (+1)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO0217134** - 2002-02-28

30 SYSTEM AND METHOD FOR SYNCHRONIZING DATABASES

Inventor: SPAEY FREDERIC (BE)

Applicant: CREASOFT (BE); SPAEY FREDERIC (BE)

EC: G06F17/30N

IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

Publication info: **WO0207006** - 2002-01-24

RESULT LIST
4 results found in the Worldwide database for:
hash in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 Apparatus and associated method for synchronizing databases by comparing hash values.
Inventor: YACH DAVID PAUL (CA); LINKERT BARRY WARREN (CA); (+6)
Applicant: RES IN MOTION LTD (CA)
EC: G06F17/30B
IPC: ***G06F7/00; G06F13/00; G06F17/00*** (+8)
Publication info: **EP1564658** - 2005-08-17

2 APPARATUS AND METHOD FOR SYNCHRONIZING DATABASES BY COMPARING HASH VALUES
Inventor: LINKERT BARRY (CA); OMAR SALIM H (CA); (+3)
Applicant: RES IN MOTION LTD (CA); LINKERT BARRY (CA); (+4)
EC: G06F17/30B; G06F17/30N
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **WO2004070625** - 2004-08-19

3 SYNCHRONIZING SOURCE AND DESTINATION SYSTEMS VIA PARALLEL HASH VALUE DETERMINATIONS
Inventor: EPSTEIN MICHAEL A
Applicant: KONINKL PHILIPS ELECTRONICS NV (NL)
EC: H04L9/32H
IPC: ***G09C1/00; H04L9/32***; **G09C1/00** (+2)
Publication info: **WO03055135** - 2003-07-03

4 One-way hash functions for distributed data synchronization
Inventor: LIVSCHITZ VICTORIA V (US)
Applicant: SUN MICROSYSTEMS INC (US)
EC: G06F17/30B; G06F17/30P1C
IPC: ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6470329** - 2002-10-22

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
6 results found in the Worldwide database for:
datasets in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 System and methods for synchronizing datasets using cooperation among multiple synchronization engines
Inventor: LARUE CHRIS (US); DUBE BRYAN (US) **Applicant:** STARFISH SOFTWARE INC (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US2002133508** - 2002-09-19

2 System and methods for synchronizing data between multiple datasets
Inventor: LARUE CHRIS (US); GRAY JEFF (US); (+1) **Applicant:** STARFISH SOFTWARE INC (US)
EC: A61M19/00; G06F17/30B; (+1) **IPC:** ***A61M19/00; G06F17/30***; **A61M19/00** (+2)
Publication info: **US6810405** - 2004-10-26

3 System and methods for synchronizing datasets using cooperation among multiple synchronization engines
Inventor: LARUE CHRIS (US); DUBE BRYAN (US) **Applicant:** STARFISH SOFTWARE INC (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US6401104** - 2002-06-04

4 System and methods for synchronizing datasets when dataset changes may be received out of order
Inventor: LARUE CHRIS (US); DUBE BRYAN (US); (+1) **Applicant:** STARFISH SOFTWARE INC (US)
EC: G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30
Publication info: **US6449622** - 2002-09-10

5 System and methods for robust synchronization of datasets
Inventor: LARUE CHRIS (US) **Applicant:** STARFISH SOFTWARE INC (US)
EC: G06F17/30N **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US6477545** - 2002-11-05

6 System and methods for synchronizing two or more datasets
Inventor: BODNAR ERIC O (US); LARUE CHRIS (US); (+3) **Applicant:** STARFISH SOFTWARE INC (US)
EC: G06F17/30B **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F12/00
Publication info: **US6295541** - 2001-09-25

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
3 results found in the Worldwide database for:
target and source in the title AND **synchronization** in the title or abstract
(Results are sorted by date of upload in database)

1 Data synchronization interface between a source and a target
Inventor: HOREL JERRY; TRUITT ROBERT; (+1) **Applicant:** QUALCOMM INC
EC: G06Q30/00B **IPC:** ***G06F12/00; G06F13/00; G06Q30/00*** (+8)
Publication info: **NZ531148** - 2005-11-25

2 Staging buffer for translating clock domains when source clock frequency exceeds target clock frequency
Inventor: HUGHES WILLIAM A (US); HEWITT LARRY D (US) **Applicant:** ADVANCED MICRO DEVICES INC (US)
EC: G06F5/10; H04L7/02 **IPC:** ***G06F5/10; H04L7/02***; *H04L7/00* (+4)
Publication info: **US6370600** - 2002-04-09

3 Processes and apparatuses for generating file correspondency through replication and synchronization between target and source computers
Inventor: FALLS PATRICK T (GB); WIGHTMAN ANDY T (GB) **Applicant:** NOVELL INC (US)
EC: G06F9/44G4C **IPC:** ***G06F9/44***; **G06F9/44**; (IPC1-7): G06F17/30
Publication info: **US5950198** - 1999-09-07

Data supplied from the ***esp@cenet*** database - Worldwide

10/671,295

Fast 8 forms search
8/15/2006

File 348:EUROPEAN PATENTS 1978-2006/ 200632
(c) 2006 European Patent Office
File 349:PCT FULLTEXT 1979-2006/UB=20060810,UT=20060803
(c) 2006 WIPO/Univentio

Set	Items	Description
S1	160542	SYNCHRONIZ??? OR SYNCHRONIZATION OR SYNCHRONIS??? OR SYNCHRONISATION OR SYNCH OR SYNC
S2	1385911	VALUE? ? OR NUMBER? ?
S3	161644	S2(3N)(FIRST OR 1ST OR ORIGINAL?? OR INITIAL?? OR PRIMARY)
S4	291889	S2(3N)(SECOND OR 2ND OR NEXT OR ANOTHER OR OTHER OR TWO OR ADDITIONAL)
S5	969997	HASH??? OR FUNCTION? ? OR DIGEST???
S6	1359442	COMBIN??? OR COMBINATION OR CONCATENAT??? OR JOIN??? OR APPEND??? OR PREPEND???
S7	1800384	COMPAR??? OR COMPARISON? ? OR MATCH??? OR SAME OR DIFFER????
S8	625	S1(100N)S3(3N)S5(100N)S4(3N)S5
S9	126	S8 AND IC=G06F
S10	1233	S3(5N)S6(5N)S4
S11	23	S8(100N)S10
S12	20	S11 NOT AD=20030925:20060815/PR
S13	22470	S1(3N)(DATA OR DATABASE? ?)
S14	27	S13(50N)S3(3N)S5(50N)S4(3N)S5
S15	23	S14 NOT S11
S16	23	S15 NOT AD=20030925:20060815/PR

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File 350:Derwent WPIX 1963-2006/UD=200651
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Set	Items	Description
S1	276822	SYNCHRONIZ??? OR SYNCHRONIZATION OR SYNCHRONIS??? OR SYNCHRONISATION OR SYNCH OR SYNC
S2	3168848	VALUE? ? OR NUMBER? ?
S3	120599	S2(3N)(FIRST OR 1ST OR ORIGINAL?? OR INITIAL?? OR PRIMARY)
S4	148403	S2(3N)(SECOND OR 2ND OR NEXT OR ANOTHER OR OTHER OR TWO OR ADDITIONAL)
S5	995608	HASH??? OR FUNCTION? ? OR DIGEST???
S6	1749791	COMBIN??? OR COMBINATION OR CONCATENAT??? OR JOIN??? OR APPEND??? OR PREPEND???
S7	4329059	COMPAR??? OR COMPARISON? ? OR MATCH??? OR SAME OR DIFFER????
S8	16	S1 AND S3(3N)S5 AND S4(3N)S5
S9	14	S8 NOT AD=20030925:20060815/PR
S10	30333	S1(5N)(DATA OR DATABASE? ?)
S11	2359	S10 AND S5
S12	128	S11 AND S3:S4
S13	46	S11 AND S3 AND S4
S14	41	S13 NOT S8
S15	36	S14 NOT AD=20030925:20060815/PR
S16	11	S15 AND IC=G06F
S17	546	S3(5N)S6(5N)S4
S18	3	S17 AND S10
S19	96	S2(5N)S6 AND S10
S20	15	S19 AND S5
S21	15	S20 NOT (S8 OR S16 OR S18)
S22	15	S21 NOT AD=20030925:20060815/PR

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Set     Items   Description
S1     238331   SYNCHRONIZ??? OR SYNCHRONIZATION OR SYNCHRONIS??? OR SYNCH-
              RONISATION OR SYNCH OR SYNC
S2    9383922   VALUE? ? OR NUMBER? ?
S3     221428   S2(3N)(FIRST OR 1ST OR ORIGINAL?? OR INITIAL?? OR PRIMARY)
S4     336338   S2(3N)(SECOND OR 2ND OR NEXT OR ANOTHER OR OTHER OR TWO OR
              ADDITIONAL)
S5    7438718   HASH??? OR FUNCTION? ? OR DIGEST???
S6    4729544   COMBIN??? OR COMBINATION OR CONCATENAT??? OR JOIN??? OR AP-
              PEND??? OR PREPEND???
S7   16313101   COMPAR??? OR COMPARISON? ? OR MATCH??? OR SAME OR DIFFER??-
              ??
S8          3   S1 AND S3(5N)S5 AND S4(5N)S5
S9          3   RD  (unique items)
S10       766   S1 AND S5(5N)S2
S11       327   S10 AND S7
S12     12770   S1(3N)(DATA OR DATABASE? ?)
S13        12   S12 AND S11
S14        11   RD  (unique items)
S15         7   S14 NOT PY=2004:2005
S16       428   S12 AND S5 AND S7
S17         2   S16 AND S6(5N)S2
S18         0   S12 AND S3 AND S4
S19        20   S12 AND S6(5N)S2
S20        14   RD  (unique items)
S21        11   S20 NOT PY=2004:2006
S22         9   S21 NOT (S9 OR S15 OR S17)
S23        39   S1 AND S3 AND S4
S24        32   RD  (unique items)
S25        29   S24 NOT (S9 OR S15 OR S17 OR S22)
```

S26 23 S25 NOT PY=2004:2006

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